

**Amendments to the Specification:**

Please replace the paragraph beginning at page 3, line 5 with the following rewritten paragraph:

These objects, along with others which, although not stated explicitly, can be inferred, or arise automatically, as self-evident from the context discussion herein, are achieved by the process for preparing emulsion polymers ~~described in claim 1. Judicious modifications of the process of the invention are protected in the subclaims appendant to claim 1~~ in which at least one monomer composition is introduced into a reactor and polymerized in a two-phase system, comprising passing at least one monomer composition and at least one initiator composition into a micromixer via different supply lines and mixing them therein, the initiator composition being preheated, prior to its entry into the micromixer, to a temperature at which at least one of the initiators forms free radicals, and, after the mixture formed in the micromixer has emerged, polymerizing at least a fraction of the monomers.

Please replace the paragraph beginning at page 5, line 10, with the following rewritten paragraph:

~~With regard to~~ The apparatus for conducting the process of the invention, claim 15 provides an achievement of the underlying object comprises at least two reservoir

vessels connected via at least two feed lines to a micromixer, at least one of the feed lines being heatable, wherein said apparatus comprises a loop reactor.